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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Taka-Aki Sato and Junn Yanagisawa
Serial No.: 09/230,111
Filed : January 22, 1999
For : COMPOUNDS THAT INHIBIT INTERACTION BETWEEN SIGNAL-
TRANSDUCING PROTEINS AND THE GLGF (PDZ/DHR) DOMAIN
AND USES THEREOF

1185 Avenue of the Americas
New York, New York 10036
April 12, 1999

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants submit herewith an Information Disclosure Statement under 37 C.F.R. §1.56.

In accordance with their duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following disclosures:

1. U.S. Patent No. 5,632,994 (Reed et al.) issued May 27, 1997.
2. WO 96/18641 (Yeda Research and Development Co. Ltd.) published June 20, 1996.
3. Boldin, M.P. et al. (1995) "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," J. Biol. Chem. 270(14):7795-7798.
4. Chao, M.V. and Hempstead, B.L. (1995) "p75 and Trk: a Two-Receptor System," Trends Neurosci 18:321-326.

5. Cho, K.-O. et al. (1992) "The Rat Brain Postsynaptic Density Fraction Contains a Homolog of the Drosophila Discs-Large Tumor Suppressor Protein," Neuron 9:929-942.
6. Doyle, D.A. et al. (1996) "Crystal Structures of a Complexed and Peptide-Free Membrane Protein-Binding Domain: Molecular Basis of Peptide Recognition by PDZ," Cell 85:1067-1076.
7. Itoh, N. and Nagata, S. (1993) "A Novel Protein Domain Required for Apoptosis," J. Biol. Chem. 268(15):10932-10937.
8. Itoh, N. et al. (1991) "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen Fas Can Mediate Apoptosis," Cell 66:233-243.
9. Kim, E. et al. (1995) "Clustering of Shaker-type K⁺ Channels by Interaction with a Family of Membrane-Associated Guanylate Kinases," Nature 378:85-88.
10. Kornau, H.-C. et al. (1995) "Domain Interaction Between NMDA Receptor Subunits and the Postsynaptic Density Protein PSD-95," Science 269:1737-1740.
11. Maekawa, K. et al. (1994) "Molecular Cloning of a Novel Protein-Tyrosine Phosphatase Containing a Membrane-Binding Domain and GLGF Repeats," FEBS Letters 337:200-206.
12. Matsumine, A. et al. (1996) "Binding of APC to the Human Homolog of the Drosophila Discs Large Tumor Suppressor Protein," Science 272:1020-1023.
13. McGahon, A. J. et al. (1995) "The End of the (Cell) Line:

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Methods for the Study of Apoptosis in Vitro," Meth. Cell Biol.
46:153-185.

14. Saras, J. et al. (1994) "Cloning and Characterization of PTPL1, a Protein Tyrosine Phosphatase with Similarities to Cytoskeletal-associated Proteins," J. Biol. Chem 269(39):24082-24088.
15. Sato, T. et al. (1995) "FAP-1: A Protein Tyrosine Phosphatase That Associates with Fas," Science 268:411-415.
16. Zhang, J. et al. (1996) "A Mouse Fas-Associated Protein With Homology to the Human MORT1/FADD Protein is Essential for Fas-Induced Apoptosis," Molecular and Cellular Biology 16(6):2756-2763.

The subject application is a §371 of PCT International Application No. PCT/US97/12677, filed July 18, 1997, which claims priority of and is a continuation-in-part of U.S. Serial No. 08/681,219, filed July 22, 1996.

Each of the above-listed references is listed again on the accompanying PTO Form 1449 (Exhibit A).

Applicants request that the Examiner review the references and make them of record in the subject application.

References 3-15 were submitted to and considered by the U.S. Patent and Trademark Office (PTO) in an Information Disclosure Statement and references 1, 2 and 16 were cited by the Examiner in connection with Serial No. 08/681,219. Accordingly, under 37 C.F.R. 1.98(d) copies of references 1-16 are not required to be provided to the PTO, since they were previously submitted in an application relied

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upon for an earlier filing date under 35 U.S.C. §120. Courtesy copies will be provided to the Examiner upon request.

References 1, 2, 6, 10, 12 and 16 were cited in the International Search Report issued in connection with PCT International Application No. PCT/US97/12677, filed July 18, 1997. A copy of the International Search Report is attached hereto as Exhibit B.

If a telephone conference would be of assistance in advancing the prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone at the number provide below.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
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Albert Wai-Kit Chan 1/12/99
Albert Wai-Kit Chan Date
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